NOTE: This addendum, consisting of Page 1 of 4 pages, is being transmitted electronically via email. In the event of faulty or incomplete transmission, please contact **BANCROFT ARCHITECTS + ENGINEERS** at (847) 952-9362.

Date: April 10, 2015

ADDENDUM NO. ONE TO THE BIDDING DOCUMENTS FOR:

111 Upgrade MRI Suite
VA Project No. 695-14-145

VA Medical Center
5000 West National Avenue
Milwaukee, Wisconsin 53295

for

RE: Mark Wisniewski, Facilities Management

TO ALL BIDDERS OF RECORD:

This addendum shall be a part of the Contract Documents and modifies the original Bidding Documents dated 01/05/2015 as follows. Acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to acknowledge receipt of Addendum may subject Bidder to disqualification.

The following changes regarding the contract specifications and drawings are hereby provided by amendment.

Attachments:

1. Sheet G-102
2. Sheet A-103
3. Sheet ED-101
4. Sheet E-101
5. Sheet E-131
6. Sheet MH-102

CHANGES TO PROJECT SPECIFICATIONS: (None)

CHANGES TO DRAWINGS

Drawing SHEET G-102:

1.1 Revised – Door swing to Equipment Room 2490 door has been corrected to show door swings out.
1.2 Revised – Swing to temporary construction door swings out.

Drawing SHEET A-103:

1.1 Description – Demolition Roof Plan Notes added.
1.2 Description – Roof Plan Notes added.
1.3 Description – Partial Roof Demolition Plan Shows areas of the existing rubber roof, roof curbs, and chiller support rails to be removed.
1.4 Description – Partial Roof Plan (New Work) provides areas where new rubber flashing, rubber roof curbs, and any areas where Contractor will furnish and install roofing system infill at mechanical equipment.

Drawing SHEET MH-102:

1.1 Revised – Demolition Key Note #4 will include sizes of existing glycol pipes to be demolished.

Existing 1 ½" glycol hot water and 2" glycol chilled water piping to be removed

Drawing SHEET ED-101:

1.1 Description – Demolition Key Note #24 added. Existing fire alarm and strobe to be removed and relocated. Existing fire alarm and strobe will be relocated east, just outside of the temporary construction barrier wall. This will be fire alarm and strobe and permanent location

Drawing SHEET E-101:

1.1 Revised – Key Note #29. Location of existing date rack and telecommunication terminal is provided. Existing data rack and telecommunication terminal are located in the Fiber Closet, Room 2600AB.

1.2 Description – Key Note #32 added. Existing fire alarm and strobe will be relocated east, just outside of the temporary construction barrier wall. This will be fire alarm and strobe and permanent location

Drawing SHEET E-131:

1.1 Revised – Luminare Schedule Type L2.

The following questions and answers provide clarification to the contract documents:

Question 1: Is there was an Asbestos Inspection Report done on for this project? If so, can you forward the report on to me?

Response: ACM has not been identified within the construction area.

Question #2: Are both hot and chilled glycol connected to the existing rooftop unit? Please issue a sketch indicating the location and size of the existing glycol piping.

Response: Please see Demolition Key Note #4. – "Demolish and remove existing rooftop unit, controls, roof curb, and all associated piping down below to roof level. Prepare piping for new construction" Refer to SHEET M-503 Detail 1 – Water Coils-Piping Connection for further detail on new piping and required valves.

Question #3: Sheet 1/MH-102 Key Note 4 describes the removal of the existing rooftop unit along with associated glycol piping to below roof. Sheet 2/MH-102 shows a new AHU-2488 mounted on the roof and Key Note 5 describes new hot and chilled glycol lines connected to this unit. No existing glycol piping is shown on any Mechanical sheet. Does both hot and chilled glycol pipe exist?

Response: BAE Response: The existing rooftop unit is currently being supplied with existing 1 ½" glycol hot water and 2" glycol chilled water piping.

Question #4: Will the dock be shut down while crane is in use? If needed, can crane be left overnight?

Response: Refer to Sheet G-100, Detail #1, - "Outage permit required for loading dock shutdown. Work will be completed during the weekend." Weekend hours for the loading dock shutdown are defined as between 8:00 pm Friday to 12:00 am Sunday night. *Crane can be left overnight during the weekend if required to complete lifts.*

Questions #5: What are the off hour times?

Response: Refer to Section 01 01 10 (SN), Paragraphs 1.5 (A) and (B) and Sheet G-102, Floor Plan Key Note #7.

Question #6: Will strobe at 2490 need to be relocated and functional during construction?

Response: Please see revised drawing SHEETS ED-101 and E-101. Existing fire alarm strobe will be removed and permanently relocated outside of the temporary construction barrier wall (infection control room).

Question #7: Is the magnet room training provided by the VA?

Response: Yes, training will be provided by VA.

Question #8: What will Siemens roll be as far as the installation removal of the MRI machines? Rigging? Crane rentals?

Response: Refer to Sheet G-100, Detail #1 Construction Site Plan/Staging Plan. "Crane to be provided by General Contractor for removal of old magnet, chiller, and delivery of new magnet, chillers, and AHU. Coordinate usage and time with Siemens and other contractors" Siemens Contractor is responsible for rigging of their equipment only.

Question #9: What time can we begin the weekend work? Friday night?

Response: See response to Questions #4.

Question #10: The existing data rack and telephone terminal board listed in note #29, on drawing E-101, cannot be located. Can a drawing showing the location of this room be provided? Since the location of the room talked about in note #29, drawing E-101, is not identified, we were unable to view this room at the walk through. Can another walk through of this room be provided?

Response: The existing data rack/telephone terminal board is located at Room 2600AB. Refer to revised Sheet E-101, Note 29.

Question #11: Drawing G-102 - Are the electronic locks w/card readers required to be integrated to the VA P2000 electronic building security system?

Response: Yes, electronic locks/card readers are required to be integrated with the existing VA system.

Question #12: Drawing FPD-101 - ILSM note #9 states the Electrical Contractor is to furnish and install temporary heat detectors at "all project rooms and spaces during construction phase of work". Does this include the areas indicated by note 1 on AD-102 and electric closet rooms 2545EC and 2474EC?

Response: No. We are not demolishing any fire protection in the electrical closets.

Question #13: Drawing E-001 - Under the heading "Conductors" note #1 calls for XHHW wire for all branch circuits indoors. Specifications allow for use of THHN-THWN wire. Please confirm the use of THHN-THWN wire is acceptable.

Response: Yes, this is acceptable. Reference Section 26 05 19, Paragraph 2.1 (C)(4).

Question #14: Sheet E-100, Raceway Note #7 - Under the heading "Raceways" note #7 state all conduit 2" or larger is to be Galvanized Rigid Steel or Intermediate Metal Conduit. Specifications allow for EMT to be utilized for sizes up to 4". Please confirm use of EMT conduit is suitable for use up to 4".

Response: Yes, this is suitable. Reference Section 26 05 33, Paragraph 2.1 (B) (3).

Question #15: Sheet ED-101, Electrical floor Plan Key Notes - Detail Please define "to the extent possible" in reference to the conduit removal indicated in notes 1, 4, & 8.
Response: Remove to nearest junction box. General Contractor to field verify existing junction box locations.

Question #16: Drawing E-101 - Is the aluminum ladder tray referred to in note 8 open top or is it to have a cover?

Response: Provide open top ladder tray.

Question #17: Is the aluminum tray referred to in notes 15 and 16 to be ladder type as described in note 8 or is it to be solid wall tray with cover?

Response: Provide open top non-metallic ladder tray.

Question #18: If the weather does not allow or change during a schedule removal or install of MRI who would be considered liable?

Response: Risk allocation for unusually severe weather conditions or weather that has an adverse impact on critical work is the responsibility of the contractor.

Question #19: Throughout the duration of the project if any damage occurs to building who would be considered responsible?

Response: The contractor is responsible to preserve and protect all structures, equipment, and vegetation on or adjacent to the work site, which are not to be removed and which do not unreasonably interfere with the work required.

Question #20: Who is providing the crane?

Response: Refer to response for Question #8 regarding crane.

Question #21: Who is providing the EF shielding vendor/services?

Response: Refer to SHEET AD-101, DEMOLTION KEY NOTE #6. "RF Shielding Contractor to remove existing shielding system as shown on drawings complete.". Also refer to Sheet A-101, Floor Plan Key Notes #10, #12, and #13. "The general contractor is responsible to provide the appropriate shielding sub-contractor to complete required work as outlined in the specifications and drawings".

Question #22: Are there details about roof demolition?

Response: Please see revised drawing SHEET A-103, 1/Partial Roof Demolition Plan and 2/Partial Roof Plan (New Work). Roof demolition notes and new roof plan notes will be provided on SHEET A-103.

Question #23: AHJ (VA) required battery-powered lighting not related to illumination of a means of egress is required at the following locations: Locations where deep sedation or general anesthesia are administered (not limited to inhalation anesthetics). Monthly 30-second testing, plus annual 30-minute testing; The illumination levels will need to meet the end user's needs (typically can range from 30-100 foot candles

Response: Battery Back Up lighting cannot be accommodated within the MRI room itself, however, a battery backup lighting fixture will be provided within the Control Room to accommodate this requirement, see revised drawing sheet E-131.

ADDENDUM NO. ONE consists of 4 pages and 6 drawings.

END OF ADDENDUM NO. ONE

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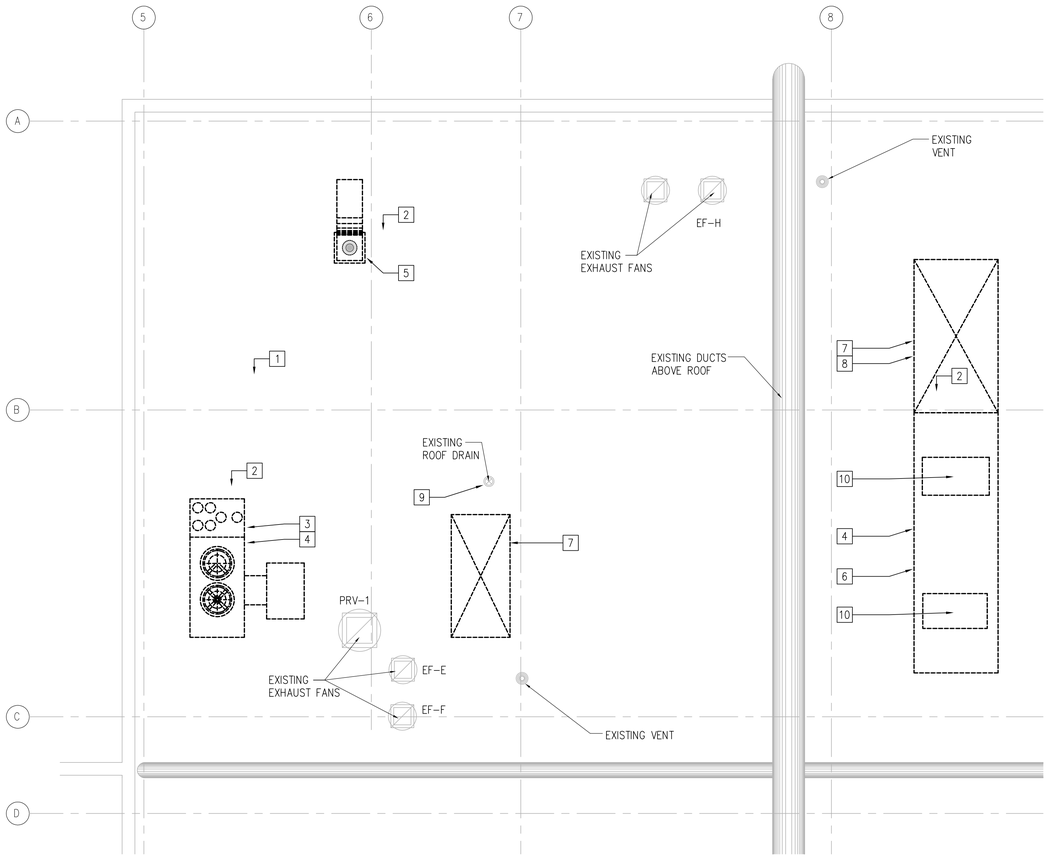
Document1-BN

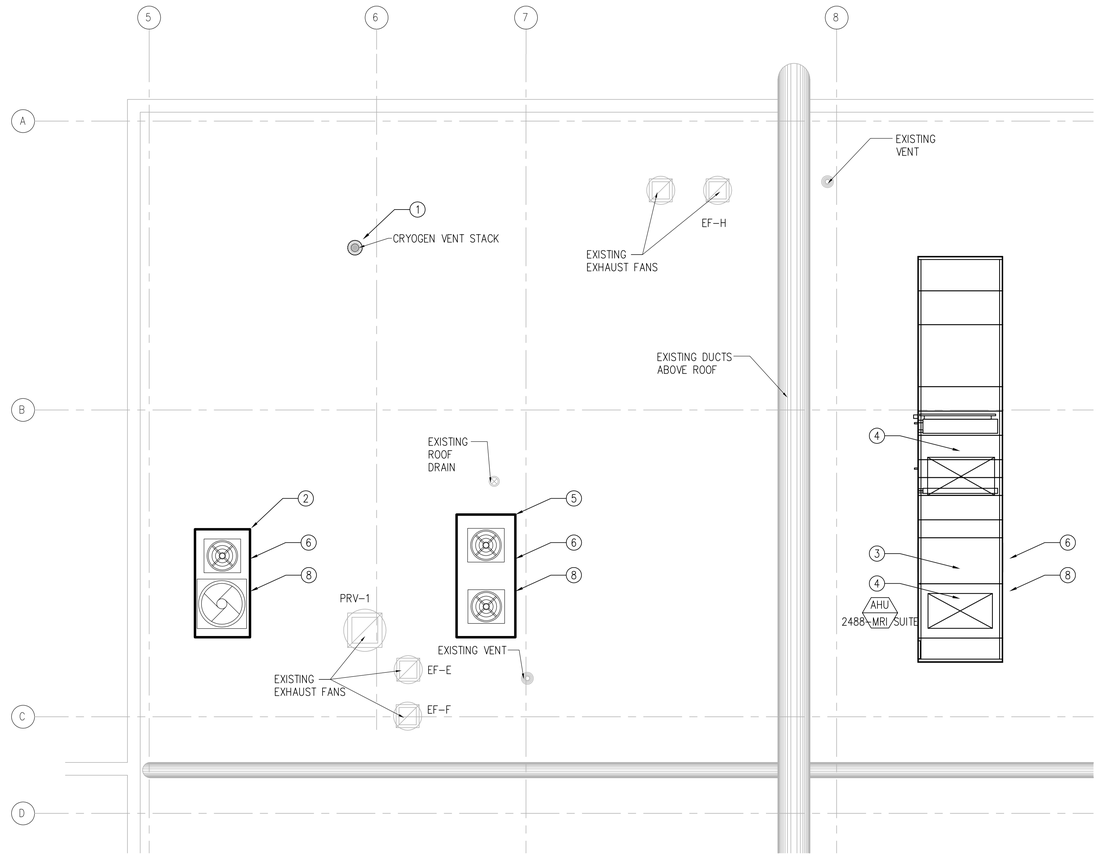


NORTH

1 PARTIAL ROOF DEMOLITION PLAN

1/4" = 1'-0"

0' 2' 4' 8' 16'



NORTH

2 PARTIAL ROOF PLAN (NEW WORK)

1/4" = 1'-0"

0' 2' 4' 8' 16'

ROOF DEMOLITION LEGEND

- EXISTING VENT THROUGH ROOF TO REMAIN
- EXISTING ROOF DRAIN TO REMAIN
- EXISTING EXHAUST FAN TO REMAIN
- EXISTING CHILLER TO BE REMOVED
- EXISTING CONSTRUCTION TO REMAIN
- AREA NOT IN CONTRACT

DEMOLITION ROOF PLAN NOTES

1. THE EXISTING ROOFING SYSTEM IS A FIRESTONE BUILDING PRODUCTS BALLASTED INSTALLATION. EXISTING ROOFING SYSTEM IS FIRE RATED (FR). EXISTING "RUBBER/GARD EPDM MEMBRANE" NON-REINFORCED 60 MIL, CURED, SINGLE PLY ROOFING MEMBRANE. EXISTING INSULATION SYSTEM IS A COMBINATION OF GAF "ENERGYGUARD PERLITE RECOVER BOARD", 1/2" THICK ON FIRESTONE "ISO 95+ GL" POLYISOCYANUARATE (POLYISO) BOARDS, TAPERED. THE POLYISO BOARDS ARE CLOSED CELL POLYISO FOAM CORE LAMINATED TO A BLACK GLASS REINFORCED MAT FACER ON BOTH SURFACES. THE ROOF SYSTEM IS UNDER A FIRESTONE BUILDING PRODUCT WARRANTY. THEREFORE CONTRACTOR WORKING ON THIS PROJECT MUST BE CURRENTLY AUTHORIZED FIRESTONE BUILDING PRODUCTS APPLICATOR/INSTALLER.
2. CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING STONE BALLAST SYSTEM. STOCK PILE STONE MATERIAL AT EXISTING ROOF DECK FOR RE-INSTALLATION.
3. REMOVE EXISTING ROOF MOUNTED CHILLER UNIT AND RELATED PIPE PENETRATION CAP PIECE. THE PIPING ROOF CURB IS SCHEDULED TO REMAIN AND BE REUSED. REMOVE EXISTING EQUIPMENT SUPPORT RAILS AT CHILLER UNIT.
4. REMOVE SECTIONS OF EXISTING RUBBER, EPDM, ROOF MEMBRANE SYSTEM ALONG ALL EQUIPMENT CURBS/RAILS SCHEDULED TO BE REMOVED. REMOVE RESPECTIVE WOOD BLOCKING AND DECK ANCHORS AT THESE POINTS. CUT EXISTING ROOF MEMBRANE IN STRAIGHT AND SQUARE ARRANGEMENT.
5. REMOVE EXISTING QUENCH VENT STACK AND RELATED COMPONENTS. REMOVE ASSOCIATED ROOF CURB AND WOOD BLOCKING. EXISTING ROOF DECK OPENING IS SCHEDULED TO BE REUSED FOR THE SCHEDULED CRYOGEN VENTING SYSTEM.
6. REMOVE EXISTING ROOF MOUNTED AIR HANDLING UNIT. REMOVE EQUIPMENT CURB AT THIS AHU. CUT, REMOVE AND DISCARD EXISTING RUBBER, EPDM, ROOFING MEMBRANE AND RESPECTIVE INSULATION SYSTEM DOWN TO CONCRETE DECK LEVEL ALONG PERIMETER OF EQUIPMENT CURB.
7. INDICATES PROFILE LINE OF SCHEDULED AIR HANDLING UNIT. REMOVE EXISTING RUBBER ROOF MEMBRANE AND RELATED INSULATION BOARDS DOWN TO EXISTING CONCRETE DECK LEVEL.
8. CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY ROOFING SYSTEM TO MAINTAIN A WATER TIGHT CONDITION AT ALL SCHEDULED EQUIPMENT DEMOLITION AREAS.
9. CONTRACTOR SHALL KEEP EXISTING ROOF DRAINS CLEAR OF ALL CONSTRUCTION DEBRIS DURING ALL ACTIVITIES. INSPECT ROOF DRAIN ASSEMBLIES AT PROJECT COMPLETION PHASE OF WORK FOR ANY DEBRIS AND REMOVE.
10. INDICATES EXISTING ROOF DECK OPENINGS FOR THE SUPPLY AND RETURN DUCT WORK. THESE TWO DECK OPENINGS SHALL BE UTILIZED FOR THE SCHEDULED DUCT WORK INSTALLATION/ROUTING. FURNISH AND INSTALL TEMPORARY BARRIERS TO MAINTAIN A WATERTIGHT BUILDING INTERIOR.
11. CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY BARRIERS ON TOP OF THE STONE BALLAST AT ROOF LEVEL WORK AREAS.
12. CONTRACTORS SHALL REFER TO MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS FOR ADDITIONAL NOTES.

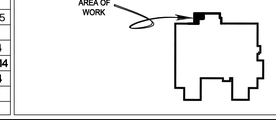
ROOF PLAN NOTES

1. INDICATES LOCATION OF CRYOGEN VENT STACK. CONTRACTOR SHALL FURNISH AND INSTALL 1/2" THICK PERLITE RECOVER BOARDS AND TAPERED POLYISOCYANURATE INSULATION BOARDS AT VOID SPACES. FURNISH AND INSTALL RUBBER MEMBRANE ROOFING AND RUBBER FLASHING SYSTEM AT VENT STACK UNIT.
2. INDICATES LOCATION OF CHILLER UNIT 2490. FURNISH AND INSTALL EQUIPMENT SUPPORT RAILS. FURNISH AND INSTALL RUBBER MEMBRANE ROOFING AND RUBBER FLASHING SYSTEM AT EQUIPMENT RAILS.
3. INDICATES LOCATION OF AIR HANDLING UNIT. EQUIPMENT CURB FOR THIS UNIT IS SCHEDULED TO BE CONTINUOUS TYPE CURB. FURNISH AND INSTALL 1/2" PERLITE RECOVER BOARDS AND POLYISOCYANUARTE INSULATION BOARDS, RUBBER MEMBRANE ROOFING AND RUBBER FLASHING SYSTEM AT THIS EQUIPMENT CURB.
4. INDICATES EXISTING ROOF DECK OPENINGS FOR THE SUPPLY AND RETURN DUCTS. CONTRACTOR SHALL UTILIZE EXISTING ROOF DECK OPENINGS FOR THE SCHEDULED DUCT WORK ROUTING/INSTALLATION.
5. INDICATES LOCATION OF ROOF MOUNTED AIR COOLED CONDENSING UNIT 2490. FURNISH AND INSTALL RUBBER MEMBRANE ROOFING AND RUBBER FLASHING SYSTEM AT EQUIPMENT RAILS.
6. CONTRACTOR SHALL FURNISH AND INSTALL ROOFING SYSTEM INFILL AT MECHANICAL EQUIPMENT RAILS AND CURBS. FURNISH AND INSTALL 1/2" PERLITE RECOVER BOARDS AND POLYISOCYANURATE INSULATION BOARDS AT ALL VOID SPACES ALONG EQUIPMENT RAILS AND CURBS.
7. ALL EQUIPMENT RAILS AND CURBS SHALL BE FABRICATED TO A HEIGHT AS FOLLOWS: MINIMUM HEIGHT FROM FINISH ROOF MEMBRANE LEVEL TO TOP OF EQUIPMENT RAIL/CURB SHALL BE 1'-6" MINIMUM. CONTRACTOR SHALL CONFIRM EXISTING ROOF INSULATION THICKNESS AT ALL EQUIPMENT PRIOR TO FABRICATING CURBS AND RAILS.
8. CONTRACTOR SHALL REUSE THE SALVAGED STONE BALLAST AND RE SPREAD AROUND ALL EQUIPMENT RAILS AND EQUIPMENT CURBS. EXCESS STONE MATERIAL SHALL BE DISCARDED FROM PROJECT SITE.
9. ALL ROOFING SYSTEM COMPONENTS SHALL MATCH EXISTING SYSTEM PRODUCTS TO MAINTAIN THE CURRENT ROOFING WARRANTY FROM FIRESTONE BUILDING PRODUCTS. ROOFING MEMBRANE SHALL BE A FIRE RETARDANT "RUBBER/GARD" EPDM NON-REINFORCED 60 MIL THICKNESS ON A "ENERGYGUARD" PERLITE RECOVER BOARD" 1/2" THICKNESS ON ISO 95+ GL" TAPERED ROOF INSULATION. INSTALL INSULATION SYSTEMS TO MATCH EXISTING INSTALLATION HEIGHTS.

Siemens Drawings are not Construction Drawings and are to be used only for informational purposes.

ADDENDUM 1	4/10/2015
100% ISSUED FOR CONSTRUCTION	1-5-2015
95% RE-SUBMITTAL	12/8/2014
95% SUBMITTAL	10/23/2014
50% SUBMITTAL	9/17/2014
35% SUBMITTAL	8/7/2014
Revisions	Date

KEY PLAN:



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Drawing Title: PARTIAL ROOF PLANS, DEMOLITION AND NEW ROOF PLAN

Approved: Project Director

Project Title: 111 UPGRADE MRI SUITE

Location: CLEMENT J. ZABLOCKI VA MEDICAL CENTER MILWAUKEE, WISCONSIN

Date: 1/5/2015 | Checked: TS | Drawn: AC

Project Number: 695-14-145

Building Number: 111

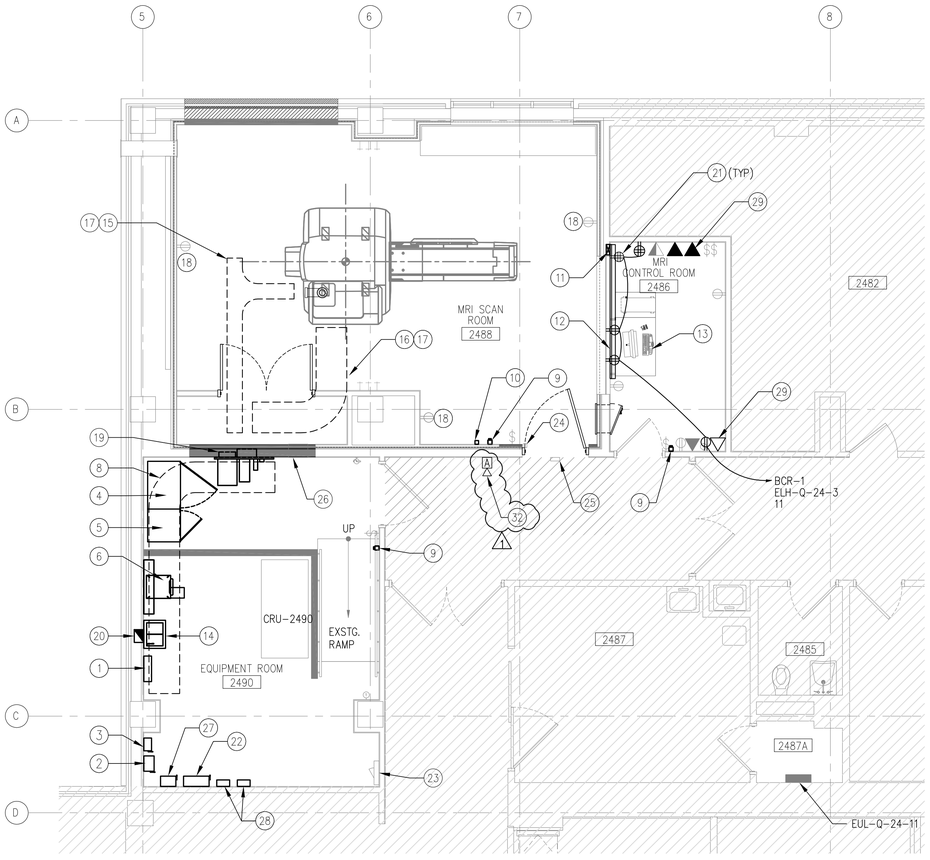
Drawing Number: A-103

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

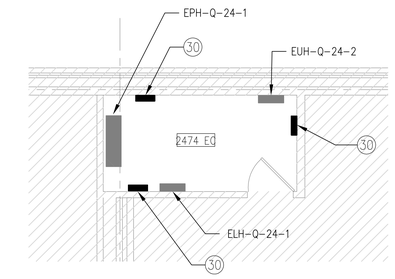
100% CONSTRUCTION DOCUMENTS - 1/5/2015 - ISSUED FOR CONSTRUCTION



NORTH

1 PARTIAL SECOND FLOOR ELECTRICAL POWER PLAN
1/4" = 1'-0"

0' 2' 4' 8' 16'



5 PARTIAL ELECTRICAL CLOSE 2474A EC LAYOUT
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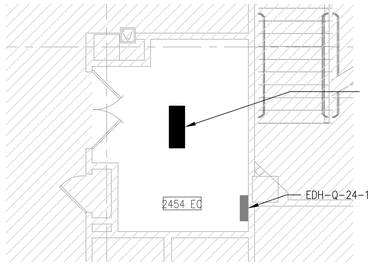
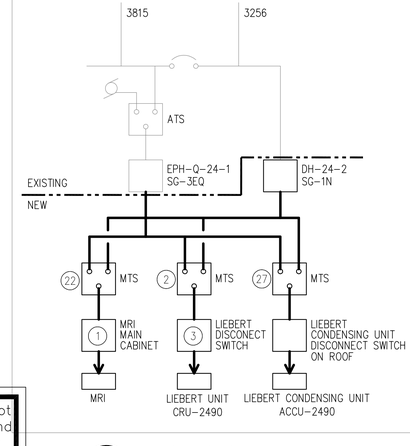


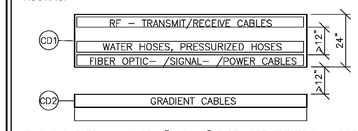
4 PARTIAL ELECTRICAL CLOSE 2454 EC LAYOUT
1/4" = 1'-0"

BRACH CIRCUIT SCHEDULE	
CIRCUIT NO.	CONDUCTORS/CONDUIT
BCR-1	2 #10 THWN, 1 #10 G, 3/4" EMT



2 PARTIAL SINGLE LINE DIAGRAM
NTS

THE PROPER ROUTING OF CABLES IS ESSENTIAL TO ACHIEVE GOOD IMAGE QUALITY. RF CABLES MUST BE SEPARATED FROM FIBER OPTIC BY AT LEAST 12" AND FROM THE GRADIENT CABLES BY AT LEAST 12".FIBER OPTIC CABLES MUST ALSO BE SEPARATED FROM THE GRADIENT CABLES BY AT LEAST 12". THIS SHOWS RACEWAY/CABLE ROUTING.



THIS CABLE TRAY MAY BE 6" OR 12" WIDE, SEE ELECTRICAL LEGEND.

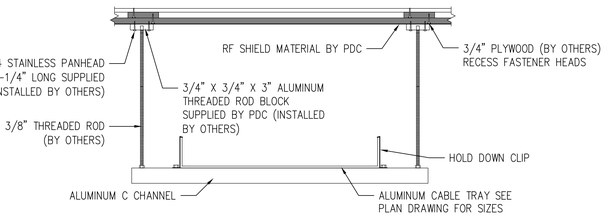
CABLE DESIGNATIONS ARE SHOWN AS AN EXAMPLE, ANY CATEGORY CABLE CAN BE LOCATED IN ANY OF THE COMPARTMENTS OF THE RACEWAY AS LONG AS CORRECT SEPARATIONS ARE MAINTAINED.

WHEN ROUTING RACEWAYS, DO NOT EXCEED THE MAXIMUM LENGTHS LISTED IN DETAIL E–501/2. EXCESS CABLE SHOULD BE ROUTED IN THE RACEWAY IN A MEANDERING METHOD, NEVER ROLLED IN LOOPS.

THE BENDING RADIUS FOR THE CABLES MUST BE MAINTAINED.
TRANSMITTER CABLE – 5" WHEN BENT ONCE.
TRANSMITTER CABLE – 14.25 WHEN BENT SEVERAL TIMES.
FIBER OPTIC CABLE – 6"
GRADIENT CABLE – 5.5" (ONLY WITH EXTENDED CABLE SET)
FIBER OPTIC CABLE FOR PATIENT OBSERVATION – 2"

REV 0

2 **CABLE SEPARATION** SCALE: NONE



3 TYPICAL LADDER CABLE TRAY INSTALLATION DETAIL INSIDE SCAN ROOM
NTS

Siemens Drawings are not Construction Drawings and are to be used only for informational purposes.

POWER PLAN GENERAL NOTES

1 REFER TO DRAWING E–001 FOR GENERAL CONSTRUCTION NOTES.

2 REEFER TO DRAWING E–601 AND E–602 FOR LOCATION OF PANELS AND PANEL SCHEDULE.

3 WORK FURNISHED BY ELECTRICAL CONTRACTOR: WORK NOT PROVIDED BY SIEMENS MEDICAL SYSTEMS BUT SHOWN ON DRAWINGS AND SIEMENS REFERENCE DRAWINGS TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR INCLUDES THE FOLLOWING BUT NOT LIMITED TO UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHED, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.

4 PROVIDE WIRE/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATION OF OPENING TO BE CUT IN FIELD ARE TO BE COORDINATED WITH SIEMENS CONTRACTOR. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE.IN–FLOOR TRENCH DUCT AND FINISH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.

5 ELECTRICAL CONTRACTOR SHALL REFER TO DETAIL THIS DRAWING FOR SIEMENS MEDICAL SYSTEMS RECOMMENDAED CABLE SEPARATION DETAIL AND FURNISH AND INSTALL BARRIER AS NECESSARY.

6 THE RF SHIELDING MUST BE FITTED WITH A GROUND STUDE OR BUS BAR, LOCATED WITHIN 24" OF THE AUXILIARY FILTERS FOR ROOM LIGHTS AND OUTLETS, SUPPLIED AND INSTALL BY THE RF SHIELD SUPPLIER.

ELECTRICAL POWER PLAN KEY NOTES

1 CONTRACTOR SHALL FURNISH AND INSTALL MAIN ENCLOSURE WITH 3P, 175A, 600V BREAKER WITH UNDER VOLTAGE TRIP MECHANISM, NOVA ENERGY & AUTOMATION MODEL NEAS–43175–G–UV–B WITH 100% RATED BREAKER OR EQUAL. MAIN BREAKER MUST HAVE TRIPPING DEVICE SO WHEN ANY EPO IS PRESSED, THE MAIN BREAKER SHOULD TRIP. MOUNTING HEIGHT SHALL BE 5'–0" AFF.

2 CONTRACTOR SHALL FURNISH AND INSTALL EATON OR EQUAL HEAVY DUTY, DOUBLE THROW 60 AMP, 600 V, 3 PHASE SAFETY SWITCH FOR LIEBERT UNIT PRIMARY AND ALTERNATE POWER FEED.

3 CONTRACTOR SHALL FURNISH AND INSTALL EATON OR EQUAL 3P, 60A, 600 V DISCONNECT SWITCH FOR LIEBERT UNIT.

4 SIEMENS FURNISHED AND INSTALLED EQUIPMENT CABINET

5 SIEMENS FURNISHED AND INSTALLED GRADIENT CABINET

6 SIEMENS FURNISHED AND INSTALLED HELIUM COMPRESSOR

7 NOT USED.

8 CONTRACTOR SHALL FURNISH AND INSTALL 24" X 4" ALUMINUM LADDER TRAY WITH ALL NECESSARY SUPPORT

9 CONTRACTOR SHALL FURNISH AND INSTALL EMERGENCY POWER OFF BUTTON (EPO) WITH PROTECTIVE COVER. EPO MUST BE FAIL–SAFE DESIGN. THE CONTROL CIRCUIT FOR THE EPO MUST HAVE AN EMERGENCY STORAGE SO THAT CONTROL CIRCUIT NEVER LOSES POWER. ALL EPO'S ARE TO BE LATCHING TYPE AND MUST BE RESET BEFORE MAIN BREAKER CAN BE RESET. ELECTRICAL CONTRACTOR SHALL VERIFY MOUNTING LOCATION WITH VA MOUNTING HEIGHT SHALL BE 5'–0" AFF. ALL PARTS OF THE EPO TO BE NON–FERROUS INSIDE THE SCANNER ROOM. NOVA ENERGY & AUTOMATION MODEL ESTOP02 OR APPROVED EQUAL.

10 CONTRACTOR FURNISH AND INSTALL NON–FERROUS 4 IN SQUARE X 2.125 IN DEEP GANG BOX MOUNTED FLUSH WITH FINISH WALL 6'–0" ABOVE FINISH FLOOR FOR SIEMENS FURNISHED MAGNET STOP. PROVIDE REMOVABLE COVER WITH CABLE EXIT. 30' MAGNET STOP CABLE FURNISHED BY SIEMENS. EXACT LOCATION TO BE COORDINATED WITH VA/ARCHITECT.

11 CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL VERTICAL DUCT MOUNTED FLUSH WITH FINISHED WALL IN CONTROL ROOM FROM ABOVE FINISH CEILING TO FLOOR LINE PROVIDED WITH REMOVABLE FINISHED COVERS.

12 CONTRACTOR SHALL FURNISH AND INSTALL SURFACE MOUNTED WIREMOLD IN CONTROL ROOM AT FLOOR LINE FINISHED TO MATCH WALL.

13 SIEMENS FURNISHED AND INSTALLED HOST PC AND MAIN CONTROL CONSOLE.

14 SIEMENS FURNISHED UPS. CONTRACTOR SHALL INSTALL SIEMENS FURNISHED UPS/EPO CONTROL BOX.

15 CONTRACTOR SHALL FURNISH AND INSTALL 12" X 4" ALUMINUM TRAY AND PROVIDE ALL FITTINGS AND ACCESSORIES AS NECESSARY.

16 CONTRACTOR SHALL FURNISH AND INSTALL 24" X 4" ALUMINUM TRAY AND PROVIDE ALL FITTINGS AND ACCESSORIES AS NECESSARY.

17 ALL THE REQUIRED SUPPORT AND HARDWARE PROVIDED BY SHIELDING CONTRACTOR. REFER TO DETAIL 3 THIS DRAWING FOR TYPICAL CABLE TRAY INSTALLATION INSIDE THE SCANNER ROOM.

18 EXISTING RECEPTACLE INSIDE THE SCAN ROOM AND EXISTING OUTLET FILTER REMAINS AS IS. CONTRACTOR SHALL SPLICE EXISTING CIRCUIT AT THE JUNCTION BOX AND RE–CONNECT TO OUTLET FILTER VIA OVERHEAD ROUTED CONDUIT TO ENSURE CONTINUITY OF POWER TO EXISTING SCAN ROOM ROOM OUTLET.

19 SIEMENS FURNISHED FILTER PANEL AND INSTALLED BY RF SHIELDING CONTRACTOR.

20 CONTRACTOR SHALL FURNISH PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION PROVIDED WITH OPENING IN FINISH COVER.

21 CONTRACTOR SHALL FURNISH AND INSTALL HOSPITAL GRADE RED EMERGENCY POWER QUAD DUPLEX RECEPTACLE. CONTRACTOR SHALL REFER DWG E–601 AND E–602 FOR PANEL SCHEDULE DETAILS. CONTRACTOR SHALL VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH VA.

22 CONTRACTOR SHALL FURNISH AND INSTALL EATON OR EQUAL HEAVY DUTY, DOUBLE THROW 200 AMP, 600 V, 3 PHASE SAFETY SWITCH FOR MRI MAIN CABINET PRIMARY AND ALTERNATE POWER FEED.

23 EXISTING PANEL EUL–Q–24–3 SERVING PACS OUTLETS REMAIN IN PLACE.

24 CONTRACTOR SHALL CONNECT EXISTING DOOR SWITCH TO SIEMENS CABINET VIA OVERHEAD CONDUIT.

25 EXISTING IN USE LIGHT.

26 EXISTING OUTLET FILTER AND LIGHT FILTER REMAIN AS IS. CONTRACTOR SHALL COORDINATE WITH RF SHIELDING CONTRACTOR FOR ADDITIONAL LIGHT FILTER FOR BI–LEVEL DIMMING.

27 CONTRACTOR SHALL FURNISH AND INSTALL EATON OR EQUAL HEAVY DUTY, DOUBLE THROW 30 AMP, 600 V, 3 PHASE SAFETY SWITCH FOR LIEBERT CONDENSING UNIT PRIMARY AND ALTERNATE POWER FEED.

28 CONTRACTOR SHALL FURNISH AND INSTALL PDC 24VDC LED LIGHTING SYSTEM PART NO 506–105 REMOTE DRIVER WITH DC POWER SUPPLY PANEL OR APPROVED EQUAL FOR MRI SCAN ROOM LIGHTING.

29 CONTRACTOR SHALL PROVIDE NEW DATA AND TELECOMMUNICATION WIRING IN NEW CONDUIT FROM EXISTING DATA RACK AND TELEPHONE TERMINAL BOARD LOCATED IN FIBER CLOSET ROOM 2600AB. CONTRACTOR SHALL OPEN WALL FOR INSTALLATION OF CONDUIT AND GANG BOX FOR NEW VOICE AND RECEPTACLE. (1)

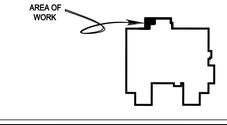
30 CONTRACTOR SHALL INSTALL MECHANICAL CONTRACTOR FURNISHED AHU–1 SUPPLY FAN VFD AND EXHAUST FAN VFD AND CONTROL PANELS. PROVIDE POWER CABLES IN NEW CONDUITS. REFER TO DWG. E–102 KEY NOTES 4 AND 5 FOR SIZES.

31 REFER TO ELECTRICAL KET NOTE 1 ON DWG. # E–602.

(1) 32 CONTRACTOR SHALL RELOCATE EXISTING FIRE ALARM STROBE. STROBE TO BE PERMANENTLY RELOCATED EAST OF THE CONSTRUCTION BARRIER AND REMAIN IN OPERATION DURING CONSTRUCTION. SPLICE AND EXTEND EXISTING WIRE TO NEW LOCATION IN 3/4" CONDUIT.

ADDENDUM 1	4–10–2015
100% ISSUED FOR CONSTRUCTION	1–5–2015
95% RE–SUBMITTAL	12/8/2014
95% SUBMITTAL	10/23/2014
50% SUBMITTAL	9/17/2014
35% SUBMITTAL	8/7/2014
Revisions:	Date

KEY PLAN:



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Drawing Title: PARTIAL SECOND FLOOR ELECTRICAL POWER PLAN

Approved: Project Director

Project Title: 111 UPGRADE MRI SUITE

Location: CLEMENT J. ZABLOCKI VA MEDICAL CENTER MILWAUKEE, WISCONSIN

Date: 1/5/2015 | Checked: TS | Drawn: PTP

Project Number: 695-14-145

Building Number: 111

Drawing Number: E-101

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08–6231

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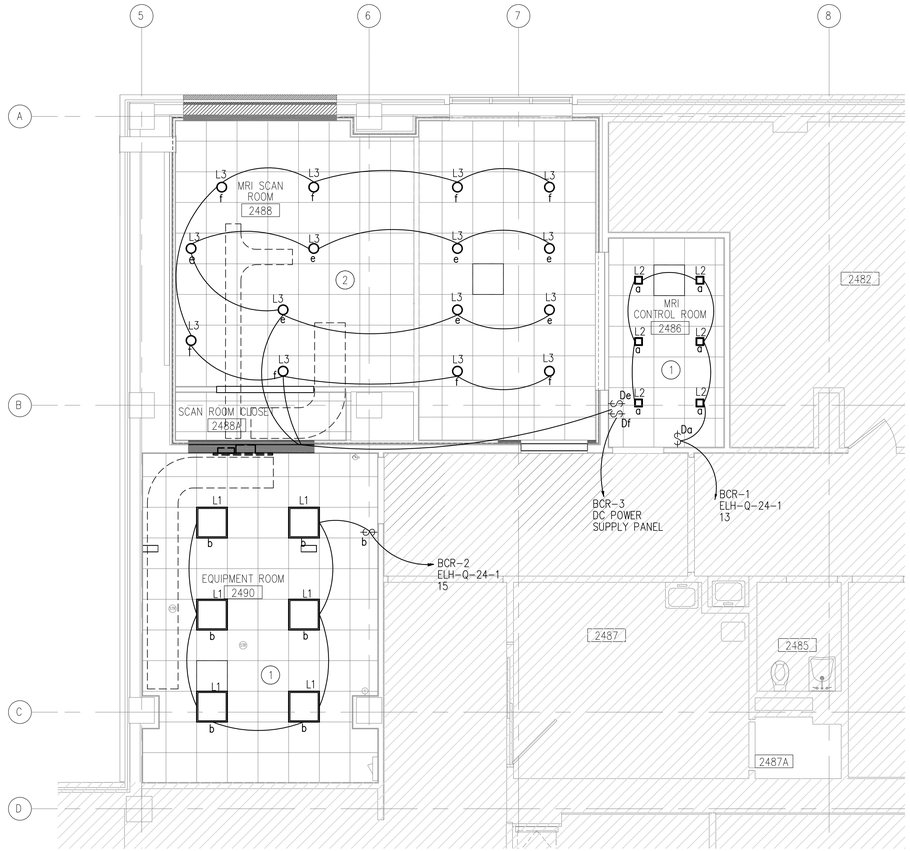
100% CONSTRUCTION DOCUMENTS - 1/5/2015 - ISSUED FOR CONSTRUCTION



NORTH

2 PARTIAL SECOND FLOOR LIGHTING PLAN

1/4" = 1'-0"

0' 2' 4' 8' 16'

LIGHTING PLAN GENERAL NOTES

1. REFER TO DRAWING E-001 FOR GENERAL CONSTRUCTION NOTES.
2. AFTER THE FINAL INSTALLATIONS OF ELECTRICAL DEVICES, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ELECTRICAL LOADING OF FEEDER/BRANCH AT BREAKER PANEL LOCATION. REPLACE THE EXISTING BREAKER AND WIRESIZE WITH CORRECT RATING PER NEC.
3. CONTRACTOR SHALL REVISE THE PANEL DIRECTORY TO REFLECT NEW CIRCUIT INFORMATION.
4. REEFER TO DRAWING E-601 AND E-602 FOR LOCATION OF PANELS PANEL SCHEDULE
5. ANY EXISTING CEILING MOUNTED SPEAKER, STROBES, SMOKE DETECTORS TO BE RE-USED UNLESS OTHERWISE NOTED.

LIGHTING PLAN KEY NOTES

1. CONTRACTOR SHALL PROVE NEW WIRE IN NEW CONDUITS TO FEED NEW LIGHTS IN CONTROL ROOM 2486 AND EQUIPMENT ROOM 2490. REFER TO DWG E-601 AND E-602 FOR PANEL SCHEDULE..
2. CONTRACTOR SHALL FURNISH AND INSTALL PDC FACILITIED, INC OR APPROVED EQUAL REMOTE DRIVER MOUNTED COMPLETE MRI ROOM LIGHTING SYSTEM WITH DIMMER AND ADDITIONAL FILTER PANEL AS NECESSARY. REFER TO MANUFACTURER INSTALLATION MANUAL FOR RF FILTER REQUIREMENTS AND COORDINATE WITH RF SHIELDING CONTRACTOR FOR FURNISHING AND INSTALLING FILTER PANEL FOR NON-SIEMENS WIRING.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS TYPE	FIXTURE INPUT WATTS	FIXTURE VOLTS	MOUNTING	REMARKS
L1	2'X2' RECESSED LED WITH CENTER BASKET, 0-10	COOPER LIGHTING METALUX	22EN-LD1-25-UNV-L835-CD1-U	LED-35K-2536-LUMENS	25W	277V	GRID	
L2	6"X6" LED SQUARE DOWNLIGHT, DIMMING	PHILIPS OR APPROVED EQUAL	C6X6L 1520-DL-35K-CL-W-EM(VB) FRAME: C6X6L15-N-U-VB-Z-10V-EM	LED-35K-1500 LUMENS	25W	277V	GRID	BATTERY BACK UP
L3	8" LED RECESSED, DIMMING MRI COMPATIBLE WITH PDC DC LED BULB	PDC FACILITIES, INC OR APPROVED EQUAL	800-100 AND 560-104	LED-3127K-1252 LUMENS	15W	24 VDC	GRID	

LUMINARE SCHEDULE GENERAL NOTES:
1. FOR EXACT LOCATIONS OF THE LIGHT FIXTURES REFER TO ARCHITECTURAL REFELCTED CEILING PLANS AND ELEVATIONS.
2. MANUFACTURERS' CATALOG NUMBERS ARE INTENTIONLY INCOMPLTE. VERIFY AND COORDINATE REQUIRED TRIM KITS, MOUNTING BRACKETS, LAMPS, FINISHES, ETC. WITH CONTRACT DOCUMENTS,
3. COORDIANTE ALL FIXTURE FINISHES WITH ARCHTECT.
4. PROVIDE FUSING AS REQUIRED BY CODE.
5. LAMPS FOR ALL FIXTURES SHALL HAVE SAME COLOR TEMPERATURE PER SPECIFICATIONS.

BRACH CIRCUIT SCHEDULE

CIRCUIT NO.	CONDUCTORS/CONDUIT
BCR-1	2 #10 THWN, 1 #10 G, 3/4" EMT
BCR-2	2 #10 THWN, 1 #10 G, 3/4" EMT
BCR-3	4 #12 THWN, 1 #12 G, 3/4" EMT

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KEY PLAN:

AREA OF WORK

ENGINEER (EE): PRAVIN PATIL

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Drawing Title: PARTIAL SECOND FLOOR LIGHTING PLAN

Approved: Project Director

Project Title: 111 UPGRADE MRI SUITE

Location: CLEMENT J. ZABLOCKI VA MEDICAL CENTER MILWAUKEE, WISCONSIN

Date: 1/5/2015 | Checked: TS | Drawn: PTP

Project Number: 695-14-145

Building Number: 111

Drawing Number: E-131

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Department of Veterans Affairs

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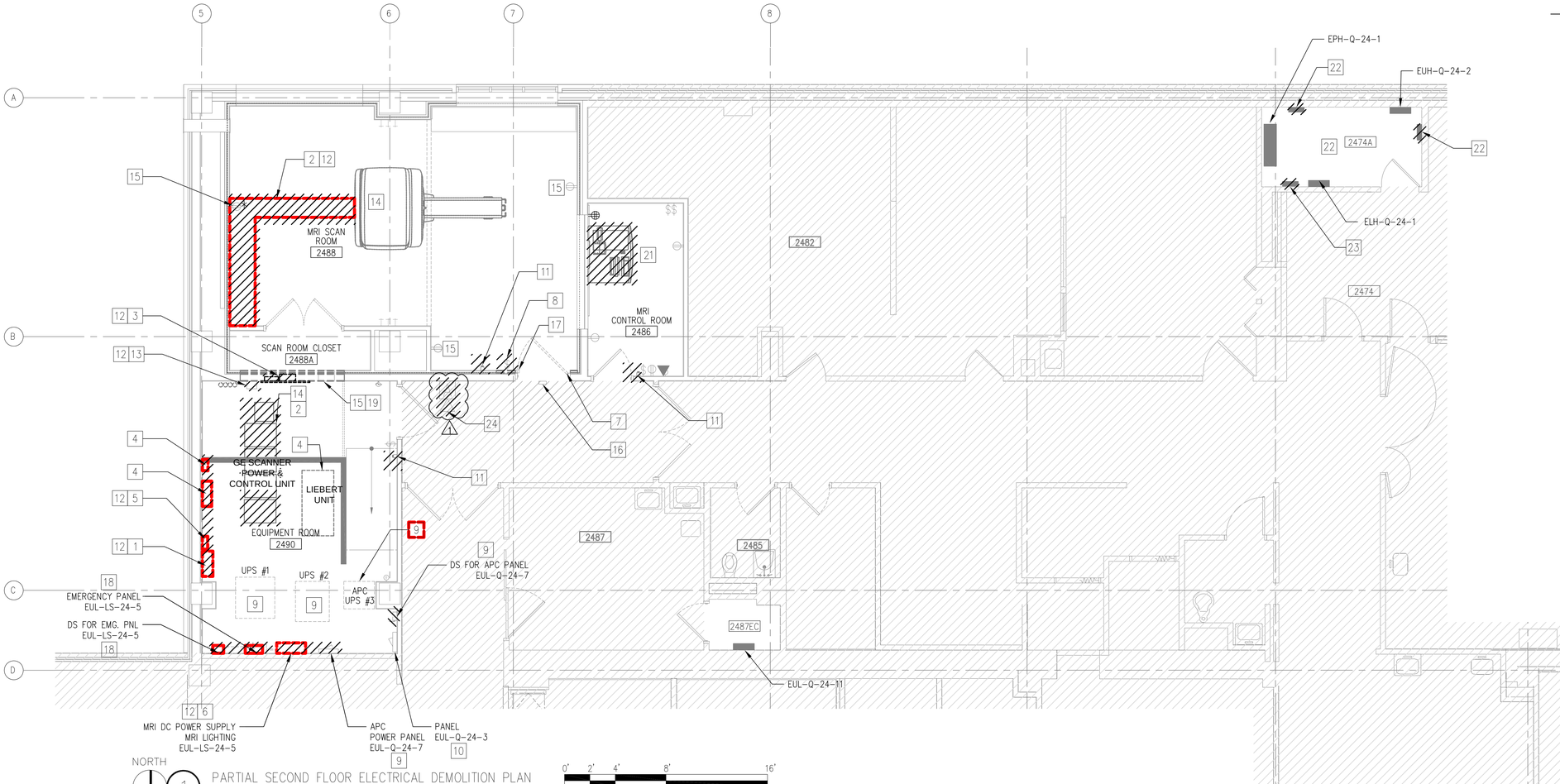


1 PARTIAL SECOND FLOOR ELECTRICAL DEMOLITION PLAN

ELECTRICAL GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL AND MECHANICAL DRAWINGS TO VERIFY THE EXTENT OF THE DEMOLITION AND REMODELING WORK. ELECTRICAL CONTRACTOR SHALL SURVEY THE EXISTING SITE PRIOR TO BIDDING AND DETERMINE THE EXTENT OF NECESSARY RELOCATIONS, REMOVALS AND REPAIRS TO THE EXISTING ELECTRICAL WORK REQUIRED TO AVOID CONFLICTS WITH NEW CONSTRUCTION TO MEET MINIMUM CODE REQUIREMENTS. ALL EXISTING WIRING NOT USED SHALL BE DISCONNECTED AT SOURCE AND REMOVED COMPLETELY. NO EXISTING JUNCTIONS OR CONDUIT COVERS SHALL BE BURIED IN NEW WALLS. ELECTRICAL CONTRACTOR TO RELOCATE SAME AS REQUIRED. A FIELD SURVEY VERIFICATION IS MANDATORY IN ORDER TO SUBMIT AN ELECTRICAL BID, FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK OF THIS CONTRACT.
2. ANY INTERRUPTION OF CIRCUITING TO AREAS NOT BEING REMODELED SHALL BE INTERCEPTED AT A LOCATION THAT DOES NOT INTERFERE WITH NEW CONSTRUCTION. HOMERUN CIRCUITING FOR THESE INTERRUPTED CIRCUITS IS TO BE NEW WIRING. AFTER REMOVAL, ALL CONTINUITY IS TO BE CHECKED FOR ALL LIGHTS AND OUTLETS IN THE AREAS NOT BEING REMODELED TO ENSURE PROPER FUNCTIONING.
3. EXISTING CONDUIT TO BE REMOVED BACK TO THE NEAREST ACCESSIBLE JUNCTION BOX. EXISTING CIRCUIT SHALL EXTEND AND SPLICE USING NEW WIRE IN NEW CONDUIT FOR NEW INSTALLATION.
4. REFER TO DWG. E-101 FOR LIGHTING AND POWER REMODELING WORK.
5. CONTRACTOR SHALL DE-ENERGIZED POWER TO THOSE MECHANICAL/PLUMBING EQUIPMENT WHICH WILL BE REMOVED OR RELOCATED BY MECHANICAL CONTRACTOR.
6. ALL EXISTING EQUIPMENT IS TO REMAIN OPERATIONAL DURING THE CONSTRUCTION PERIOD. ANY TEMPORARY WIRING OR REROUTING OF CIRCUITRY TO ACHIEVE THIS IS BY THE CONTRACTOR. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE OWNER AND THEN ONLY FOR THE DATE AND DURATION AGREED UPON. INCLUDE ALL PREMIUM TIME CHARGES IN THE BASE BID.
7. ALL LIGHTING FIXTURES REMOVED AND NOT REUSED AND/OR INDICATED TO BE REMOVED TO OWNERS STORAGE SHALL BECOME THE PROPERTY OF THE OWNER. IF THE OWNER ELECTS NOT TO RETAIN FIXTURES, ELECTRICAL CONTRACTOR SHALL REMOVE FIXTURES FROM JOB SITE AND DISPOSE OF PROPERLY.
8. ALL CONDUIT, DEVICES, FIXTURES, ETC. SHOWN IN THE DEMOLITION DRAWINGS TO BE REMOVED OR RELOCATED ARE ONLY FOR THE CONVENIENCE OF THE BIDDERS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL ITEMS PRIOR TO SUBMITTING A BID.
9. REFER TO DRAWING E-601 AND E-602 FOR LOCATION OF PANEL AND PANEL SCHEDULE.

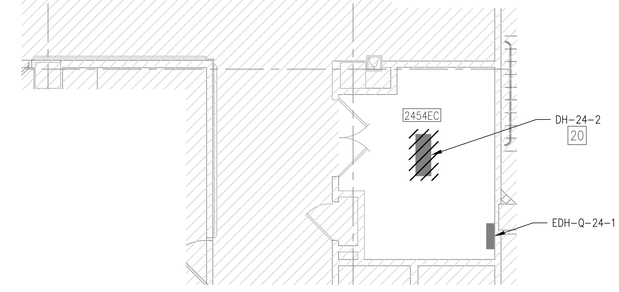
UPS #2

FIRE ALARM- HORN / STROBE DEVICE

DEMOLITION LEGEND

EXISTING ELECTRICAL DEVICE TO BE REMOVED.

AREA NOT IN CONTRACT



ELECTRICAL FLOOR PLAN DEMOLITION KEY NOTES

1. CONTRACTOR SHALL LOCK OUT TAG OUT AND DISCONNECT THE CABLE AT EPH-Q-24-1 #7 PANEL LOCATED IN ROOM #2474A. REMOVE THE CABLE, & MRI SIGMA MAIN DISCONNECT. REMOVE THE CONDUIT TO THE EXTENT POSSIBLE.
2. DISCONNECTION AND REMOVAL OF ALL THE INTERCONNECTION CABLES FROM EXISTING FILTER PANEL TO SCANNER AND FROM FILTER PANEL TO EXISTING GE CABINETS IS BY SIEMENS CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL WALL MOUNTED PANELS.
3. DISCONNECTION AND REMOVAL OF ALL THE INTERCONNECTION CABLES FROM EXISTING FILTER PANEL TO EXISTING GE CABINETS IS BY SIEMENS CONTRACTOR. REMOVAL OF FILTER PANEL IS BY RF SHIELDING CONTRACTOR.
4. CONTRACTOR SHALL DISCONNECT THE PRIMARY POWER SOURCE AT PANEL EPH-Q-24-1 LOCATED IN ROOM #2474A EC AND REMOVE WIRES. DISCONNECT THE ALTERNATE POWER SOURCE AT PANEL EDH-Q-24-1 LOCATED IN ROOM #2454 EC AND REMOVE WIRES. REMOVE WIRES FROM LIEBERT UNIT DISCONNECT TO LIEBERT UNIT. REMOVE THE ALTERNATE POWER TRANSFER SWITCH AND LIEBERT UNIT DISCONNECT SWITCH. REMOVAL OF LIEBERT UNIT IS BY MECHANICAL CONTRACTOR. REMOVE THE CONDUIT TO THE EXTENT POSSIBLE.
5. CONTRACTOR SHALL REMOVE THE MRI SIGMA MAGNET MONITOR PANEL.
6. CONTRACTOR SHALL LOCK OUT TAGOUT BREAKER CIRCUIT 1, 3, 5 AT PANEL EUL-Q-24-11 LOCATED IN ROOM 2487A. REMOVE THE CABLE. REMOVE THE MRI DC POWER SUPPLY PANEL AND ASSOCIATED CABLE AND CONDUIT TO LIGHTING FILTER PANEL.
7. CONTRACTOR SHALL REMOVE POWER FEED AND ASSOCIATED LOW VOLTAGE WIRING BACK TO ACTIVE JUNCTION BOX. EXISTING DOOR WILL BE RE-USED AFTER REPAIR WORK BY RF SHIELDING CONTRACTOR. EXISTING BRACH CIRCUIT AND LOW VOLTAGE CIRCUIT WILL BE REUSED IN NEW WORK PLAN.
8. CONTRACTOR SHALL REMOVE EXISTING SWITCH AND ASSOCIATED WIRING. REMOVE THE CONDUIT TO THE EXTENT POSSIBLE.
9. AS PER VA'S REVIEW OF THIS SPACE ON DATED 11/17/2014, IT HAS BEEN DETERMINED THAT UPS #1, #2, AND #3 IN THIS LOCATION ARE NOT IN USE AND VA BIOMED IS RESPONSIBLE FOR REMOVAL OF ALL FREE STANDING EQUIPMENT AND UPS #1, #2 AND #3. ELECTRICAL CONTRACTOR SHALL REMOVE POWER FEED CABLE TO UPS #3 FORM PANEL EUL-Q-24-4 LOCATED IN ROOM 2454EC. CONTRACTOR SHALL REMOVE APC PANEL EUL-EUL-Q-24-7 AND ASSOCIATED DISCONNECT SWITCH, CABLE, CONDUIT AND OUTLETS.
10. EXISTING PANEL EUL-Q-24-3 SERVING PACS OUTLETS REMAIN IN PLACE.
11. CONTRACTOR SHALL REMOVE EXISTING EMERGENCY POWER OFF BUTTON, REMOVE WIRING AND RE-USE EXISTING CONDUITS TO THE EXTENT POSSIBLE.
12. CONTRACTOR SHALL HAND OVER TO THE SIEMENS PURCHASING BROKER FOR REMOVAL FROM BUILDING.
13. CONTRACTOR SHALL REMOVE EXISTING ECHO CHILLER CONTROL PANEL.
14. SIEMENS PURCHASING BROKER IS RESPONSIBLE FOR REMOVAL OF THE EXISTING MRI SCANNER AND ALL ASSOCIATED SUPPORT EQUIPMENT.
15. EXISTING RECEPTACLE INSIDE THE SCAN ROOM AND EXISTING OUTLET FILTER REMAINS AS IS. ELECTRICAL CONTRACTOR SHALL REMOVE CABLES AND FLOOR MOUNTED CONDUIT FROM JUNCTION BOX TO EXISTING OUTLET FILTER FOR DEMOLITION OF RAISED FLOOR. CONTRACTOR SHALL SPLICE EXISTING CIRCUIT AT THE JUNCTION BOX AND RE-CONNECT TO OUTLET FILTER VIA OVERHEAD ROUTED CONDUIT TO ENSURE CONTINUITY OF POWER TO EXISTING SCAN ROOM OUTLET. 4-10-2015
16. EXISTING IN USE LIGHT REMAIN AS IS.
17. CONTRACTOR SHALL REMOVE THE CABLE AND CONDUIT FROM EXISTING DOOR SWITCH TO EXISTING GE CABINET.
18. CONTRACTOR SHALL REMOVE POWER FEED CABLE FROM PANEL EUL-LS-24-9 LOCATED IN ROOM 2454EC AND REMOVE THE CONDUIT TO THE EXTENTS POSSIBLE AND ASSOCIATED DISCONNECT SWITCH, CABLE, CONDUITS AND OUTLETS.
19. REMOVAL OF ABANDONED FILTER PANEL BY RF SHIELDING CONTRACTOR. CONTRACTOR SHALL REMOVE CONDUIT. EXISTING LIGHTING FILTER PANEL WILL BE RE-USED FOR NEW MRI ROOM LIGHTING CIRCUITS.
20. CONTRACTOR SHALL LOCK OUT TAG OUT BREAKER AT SOURCE PANEL LOCATION AND DEMO EXISTING PANEL DH-24-2 LOCATED IN ROOM 2454 EC AND PREPARE THE SITE FOR NEW I-LINE 1200 AMPS MAIN BREAKER, CU BUS, NEMA 1 TYPE, BOTTOM FEED, FREESTANDING WITH WELDED BASE CHANNEL PANEL. ALL DEMO AND NEW WORK INCLUDING SWITCHOVER OF POWER TO ALL EXISTING LOADS FROM REPLACED NEW PANEL SHALL BE PERFORMED DURING THE WEEKEND
21. DISCONNECTION OF ALL THE INTERCONNECTION CABLES FROM EXISTING CABINET TO CONTROL ROOM EQUIPMENT IS BY SIEMENS CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL CABLES AND ASSOCIATED CONDUITS. REMOVAL OF EQUIPMENT BY SIEMENS BROKER.
22. CONTRACTOR SHALL REMOVE VFD AND CONTROL PANELS ASSOCIATED WITH EXISTING AHU-1 AND PREPARE THE SITE FOR INSTALLATION OF NEW VFD AND CONTROL PANEL FOR NEW AHU-1. REFER TO ROOF DEMOLITION NOTE 2 AND 3 ON DWG # E-102 FOR REMOVAL OF CABLES AND CONDUITS.
23. CONTRACTOR SHALL REMOVE THE ABANDONED DISCONNECT SWITCH AND PREPARE THE THE SITE FOR OF NEW AHU-1 EXHAUST FAN VFD INSTALLATION.
24. CONTRACTOR SHALL REMOVE EXISTING FIRE ALARM/STROB AND STORE IN SAFE PLACE FOR REINSTALLATION.

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ADDENDUM 1	4-10-2015
100% ISSUED FOR CONSTRUCTION	1-5-2015
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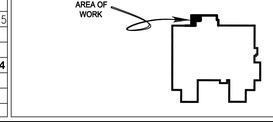

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Drawing Title: PARTIAL SECOND FLOOR ELECTRICAL DEMOLITION PLAN

Approved: Project Director

Project Title: 111 UPGRADE MRI SUITE

Location: CLEMENT J. ZABLOCKI VA MEDICAL CENTER MILWAUKEE, WISCONSIN

Date: 1/5/2015 | Checked: TS | Drawn: PTP

Project Number: 695-14-145

Building Number: 111

Drawing Number: ED-101

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

100% CONSTRUCTION DOCUMENTS - 1/5/2015 - ISSUED FOR CONSTRUCTION

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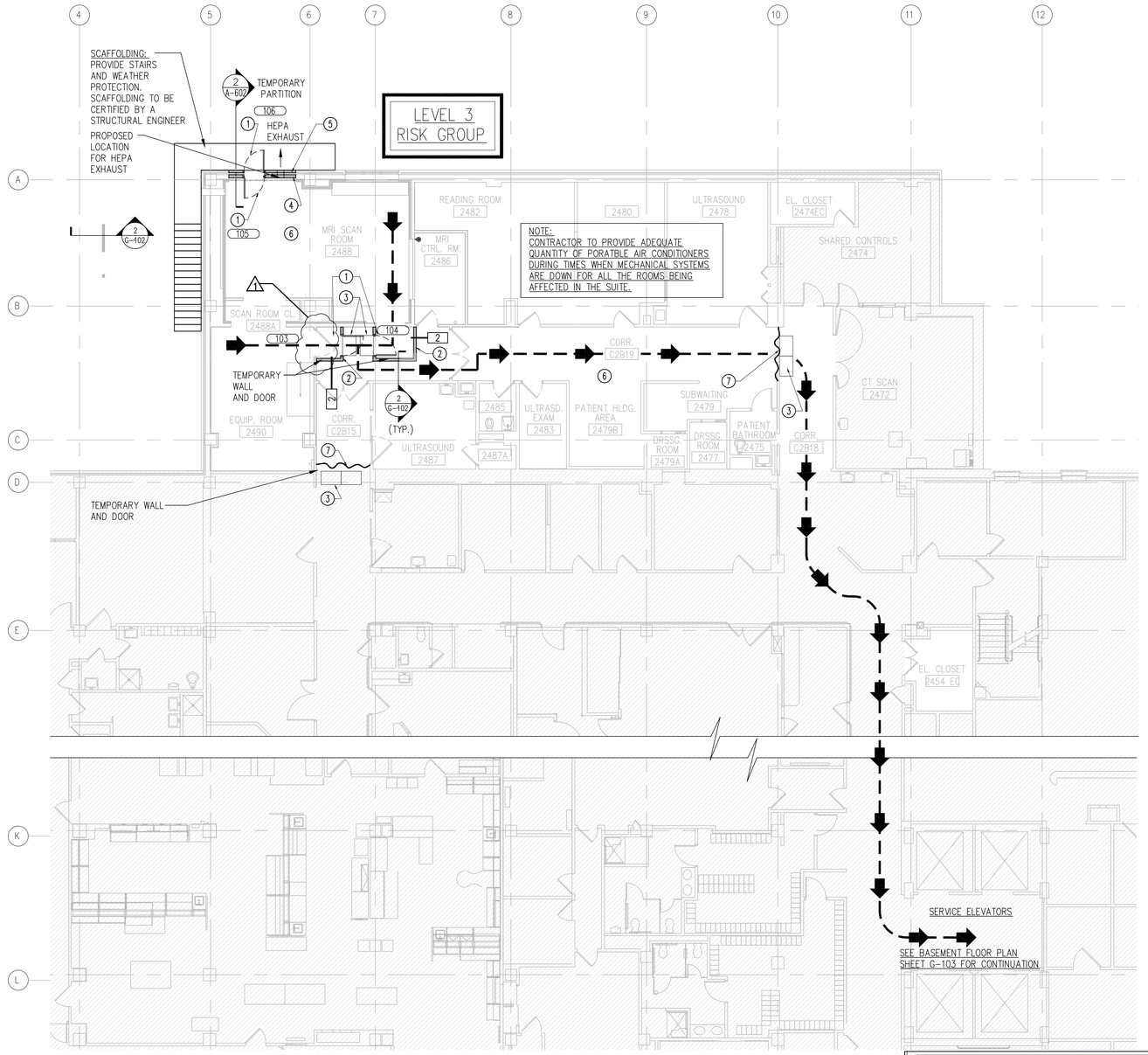


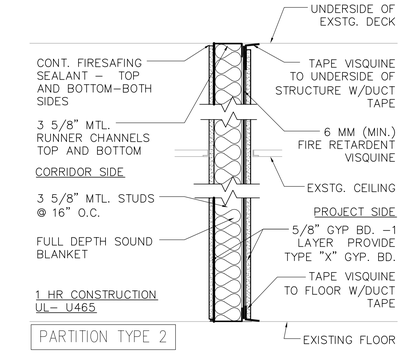
NORTH

1 SECOND FLOOR INFECTION CONTROL PLAN
1/8" = 1'-0"

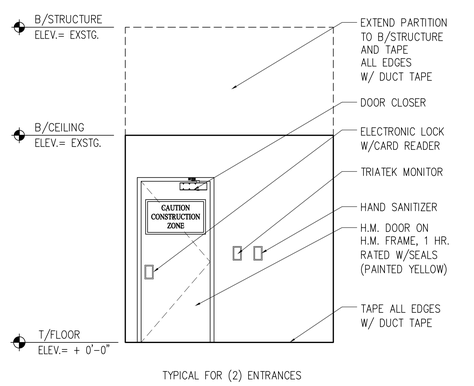
0' 8' 16' 32'

FLOOR PLAN LEGEND

- AREA NOT IN CONTRACT
- EXISTING PARTITION
- NEW PARTITION
- EXISTING DOOR
- NEW DOOR
- XXXXX / 1001 — ROOM NAME AND NUMBER
- X — PARTITION TAG
- XXX — DOOR TAG



2 CONSTRUCTION BARRIER DETAIL
1-1/2" = 1'-0"



TYPICAL FOR (2) ENTRANCES

3 TYPICAL TEMPORARY PROTECTION ELEVATION
3/16" = 1'-0"

LEGEND

- MATERIAL DELIVERY: ROUTE FROM CONSTRUCTION AREA TO SERVICE ELEVATORS
- AREA NOT IN CONTRACT

FLOOR PLAN KEY NOTES

1. INSTALL TIGHT FITTING YELLOW CONSTRUCTION DOORS WITH SELF CLOSING DEVICES. GENERAL CONTRACTOR TO PROVIDE THE CONSTRUCTION DOORS FOR THE PROJECT. SEE PROJECT MANUAL SECTION 01 01 10 IC FOR BARRIER AND INFECTION CONTROL REQUIREMENTS.
2. CONSTRUCTION BARRIER (1 HOUR WALL), SEE DETAIL 2 SHEET G–102. SEE PROJECT MANUAL SECTION 01 01 10 IC FOR BARRIER AND INFECTION CONTROL REQUIREMENTS.
3. CONTRACTOR TO PROVIDE WALK OFF MAT 24"X36" (MIN.) SEE PROJECT MANUAL SECTION 01 01 10 IC FOR ADDITIONAL INFORMATION. CHANGE MATS AS NECESSARY.
4. PROVIDE TEMPORARY PROTECTION (2HR.) WALL. SEE PROJECT MANUAL SECTION 01 01 10 IC FOR BARRIER AND INFECTION CONTROL REQUIREMENTS.
5. PROVIDE TEMPORARY PROTECTION EXTERIOR WEATHERPROOF WALL CONSISTING OF 2 X 4 WOOD FRAMING @ 16" O.C. W/¾" EXTR. RATED PLYWOOD SHEATHING COVERED BY WEATHER RESISTANT BUILDING WRAP.
6. G.C. TO PROVIDE ENOUGH NEGATIVE AIR MACHINES TO COMPLETELY EXCHANGE REGULATED AIR VOLUME 4 ACTIVE TIMES PER HOUR. PROVIDE HEPA FILTER AT FINAL STAGE FOR EXHAUST.
7. FOR ALL WORK RELATED TO SUITE WITH THE EXCEPTION OF ROOMS 2486, 2488, 2488A AND 2490. FOR A PERIOD OF APPROX. 2 WEEKS CONTRACTOR TO PROVIDE VISQUINE BARRIER AFTER HOSPITAL WORK DAY AND AREA HAS BEEN SHUT DOWN AT 8PM, MONDAY THROUGH FRIDAY. CONTRACTOR CAN WORK FROM 8 PM TO 6:00 AM. CONTRACTOR TO CLEAN UP ALL MATERIALS AND TOOLS, TEMPORARY PLASTIC BARRIERS TO BE REMOVED. HOSPITAL STAFF WILL CLEAN AREAS FOR INFECTION CONTROL AND HAVE ROOM READY BY 7:30 AM FOR STAFF TO BEGIN WORK DAY. IF CONTRACTOR NEEDS TO WORK ON WEEKENDS THE SPACES WILL BE AVAILABLE ALL DAY WITH THE EXCEPTION OF 8AM–2PM ON SATURDAYS, AND 8AM–12PM ON SUNDAYS.

DESCRIPTION OF REQUIRED INFECTION CONTROL PRECAUTIONS BY CLASS

DURING CONSTRUCTION PROJECT	UPON COMPLETION OF PROJECT
1. REMOVE OR ISOLATE HVAC SYSTEM IN AREA WHERE WORK IS BEING DONE TO PREVENT CONTAMINATION OF DUCT SYSTEM.	1. DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT IS INSPECTED BY OWNER'S SAFETY DEPARTMENT AND INFECTION CONTROL DEPARTMENT AND THOROUGHLY CLEANED BY THE OWNER'S ENVIRONMENTAL SERVICES DEPARTMENT.
2. COMPLETE ALL CRITICAL BARRIERS I.E. SHEETROCK, PLYWOOD, PLASTIC, TO SEAL AREA FROM NON WORK AREA OR IMPLEMENT CONTROL CUBE METHOD (CART W/PLASTIC COVERING AND SEALED CONNECTION TO WORK SITE WITH HEPA VACUUM FOR VACUUMING PRIOR TO EXIT) BEFORE CONSTRUCTION BEGINS.	2. REMOVE BARRIER MATERIALS CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
3. MAINTAIN NEGATIVE AIR PRESSURE WITHIN WORK SITE UTILIZING HEPA EQUIPPED AIR FILTRATION UNITS.	3. VACUUM WORK AREA WITH HEPA FILTERED VACUUMS.
4. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.	4. WET MOP AREA WITH DISINFECTANT
5. COVER TRANSPORT RECEPTACLES OR CARTS. TAPE COVERING UNLESS SOLID LID.	5. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.

* USE OPERABLE WINDOW WHEN ACCESSIBLE FOR HEPA AIR EXHAUST. OBTAIN VA C.O.R. APPROVAL FOR EXHAUSTING IN EXISTING DUCTWORK. SEE PLAN FOR PROPOSED LOCATION OF HEPA EXHAUST.

INFECTION CONTROL NOTES

* MRI PROJECT 695–14–145 IDENTIFIED AS LEVEL 3 RISK GROUP
* HVAC CONNECTIONS TO EXISTING SYSTEM TO BE DISCONECTED DURING CONSTRUCTION.
* G.C. TO SUPPLY A NEGATIVE PRESSURE MACHINE OF SUFFICIENT SIZE & QUANTITY TO ADEQUATELY HANDLE CONSTRUCTION AREAS.
* ALL AREAS OF NEGATIVE AIR WILL BE MONITORED BY A TRIATEK MONITOR PER MILWAUKEE VA GUIDELINES.
* CONTRACTOR WILL VERIFY AND TEST NEGATIVE AIR FLOW.
* CONTRACTOR TO MAINTAIN A NEGATIVE AIR PRESSURE LOG.
* CONSTRUCTION BARRIER DETAILS TO FOLLOW DETAIL 2 THIS SHEET
* ALL TEMPORARY CONSTRUCTION DOORS TO BE METAL, 1 HR. FIRE RATED, W/METAL FRAMES, CLOSERS AND SEALS. (DOORS TO BE PAINTED YELLOW PER MILWAUKEE VA STANDARD).
* ALL TEMPORARY CONSTRUCTION DOORS ACCESSING CONSTRUCTION WORK ZONE FROM EXISTING HOSPITAL TO BE EQUIPPED WITH CARD READER SECURITY PADS.
* ALL CONSTRUCTION ENTRANCES TO BE PROPERLY LABELED TO COMPLY WITH VA AND OSHA REQUIREMENTS.
* CONTRACTOR TO PROVIDE 24" X 36" WALK OFF MATS AND CHANGE THEM AS NEEDED AT EACH ENTRANCE POINT.
* CONTRACTOR TO PROVIDE HAND SANITIZERS AT ALL ENTRANCE POINTS.
* CONTRACTOR TO SUPPLY SPILL KIT, TO INCLUDE SHOP VAC, MULTI PURPOSE SPILL CONTROL SORBENTS TO ABSORB NON AGGRESSIVE LIQUIDS UP TO 30 GALLONS.
* ALL NEW CONSTRUCTION MATERIALS, TOOLS AND EQUIPMENT PASSING THROUGH HOSPITAL TO BE COVERED WITH 4 MIL. POLY SHEETS.
* THE CONTRACTOR SHALL NOT BLOCK OR HINDER THE USE OF THE BUILDINGS BY PATIENTS, STALL & VISITORS.
* ALL MATERIALS AND EQUIPMENT MUST BE PROPERLY STORED IN DESIGNATED AREAS.
* ALL DEBRIS AND GARBAGE THAT IS TO BE REMOVED THROUGH THE HOSPITAL MUST BE CONTAINED IN DUMP CARTS DESIGNED FOR THAT PURPOSE AND MUST BE COVERED WITH A FULL COVER OR LID.
* ALL DEBRIS AND GARBAGE THAT IS TO BE REMOVED THROUGH THE HOSPITAL MUST BE CONTAINED IN FLAMMABLE MATERIALS MAY NOT BE STORED IN BUILDINGS.

Low Risk	Medium Risk	High Risk	Highest Risk
• Office areas	• Cardiology • Echocardiography • Endoscopy • Nuelear Medicine • Physical Therapy • Radiology/MRI • Respiratory Therapy	• CCU • Emergency Room • Labor & Delivery • Laboratories (specimen) • Newborn Nursery • Outpatient Surgery • Pediatrics • Pharmacy • Post Anesthesia Care Unit • Surgical Units • Linen • Kitchen & Canteen	• Any area caring for immunocompromised patients • Burn Unit • Cardiac Cath Lab • Central Sterile Supply • Intensive Care Units • Medical Unit • Negative pressure isolation roorms • Oncology • Operating rooms including C-section rooms • Dialysis

Construction Project Type

Patient Risk Group	TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group	I	II	II	III/IV
MEDIUM Risk Group	I	II	III	IV
HIGH Risk Group	I	II	III/IV	IV
HIGHEST Risk Group	II	III/IV	III/IV	IV

INFECTIOUS CONTROL DESIGN NOTES:

TYPE A Minimal Fire Risk	**Inspection and Non-Invasive Activities.** Includes, but is not limited to: • removal of ceiling tiles for visual inspection limited t 1 tile per 50 square feet • painting (but not sanding) • wall covering, electrical trim work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection. • Removal of floor tile less than 25 square feet, non-ACM and no grinding or dust generating activities
TYPE B Limited Fire Risk	**Small scale, short duration activities which create minimal dust** Includes, but is not limited to: • installation of telephone and computer cabling • access to chase spaces • cutting of walls or ceiling where dust migration can be controlled
TYPE C Moderate Fire Risk	**Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies** Includes, but is not limited to: • sanding of walls for painting or wall covering • removal of floor coverings, ceiling tiles and casework • new construction or renovations over 3 days duration • major duct work, plumbing, piping, or electrical work • soldering or brazing operations • ANY activity that requires a burn permit
TYPE D Significant Fire Risk	**Major demolition and construction projects** Includes, but is not limited to: • activities which require consecutive work shifts • requires heavy demolition or removal of a complete building system • new construction or renovations over 3 days duration

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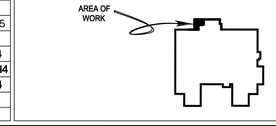
Revisions	Date
ADDENDUM 1	4/10/2015
100% ISSUED FOR CONSTRUCTION	1-5-2015
95% RE-SUBMITTAL	12/8/2014
95% SUBMITTAL	10/23/2014
50% SUBMITTAL	9/17/2014
35% SUBMITTAL	8/7/2014

KEY PLAN:



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Drawing Title: PARTIAL SECOND FLOOR INFECTION CONTROL PLAN

Approved: Project Director

Project Title: 111 UPGRADE MRI SUITE

Location: CLEMENT J. ZABLOCKI VA MEDICAL CENTER MILWAUKEE, WISCONSIN

Date: 1/5/2015 | Checked: AC | Drawn: CM

Project Number: 695-14-145

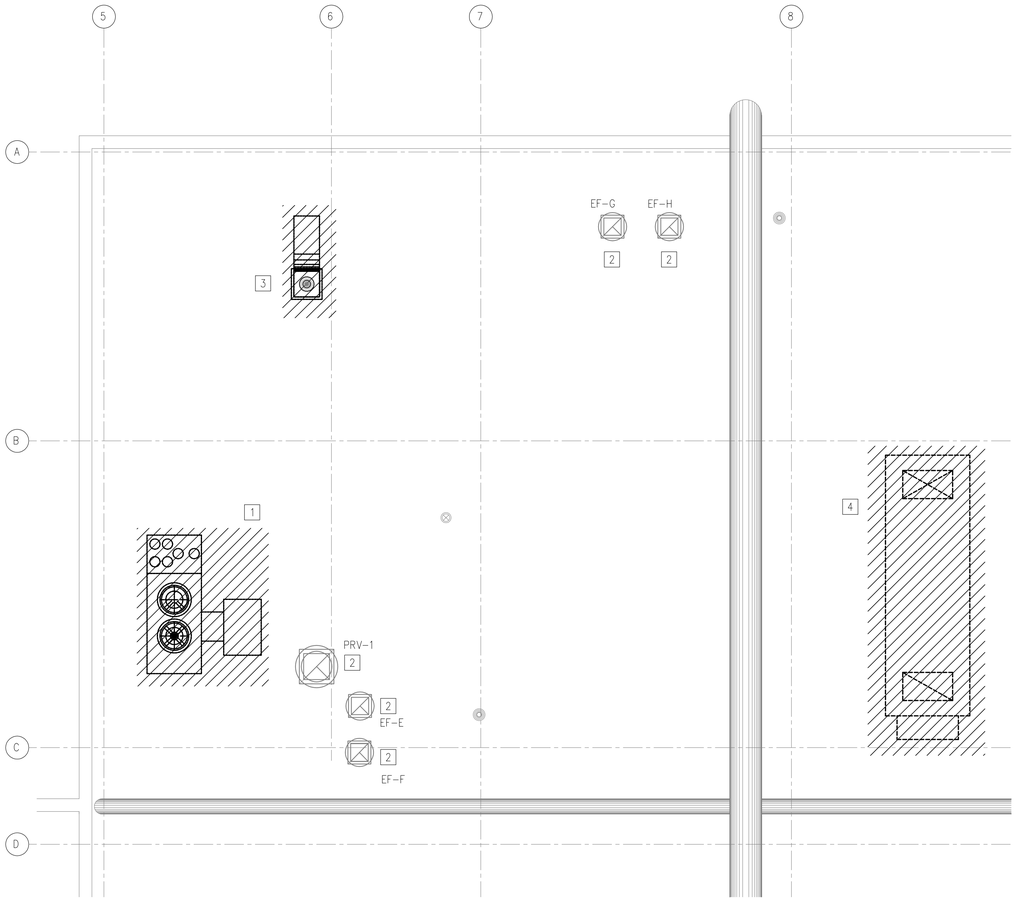
Building Number: 111

Drawing Number: G-102

Office of Construction and Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS - 1/5/2015 - ISSUED FOR CONSTRUCTION



NORTH

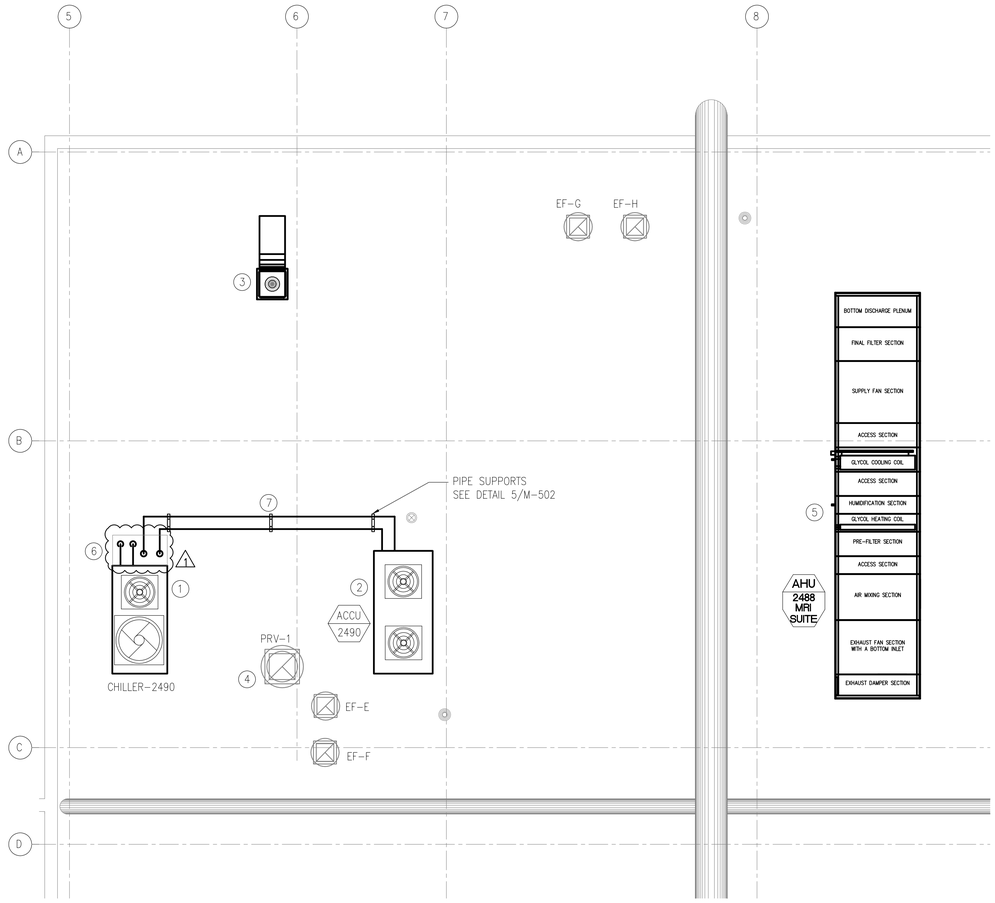
1 MECHANICAL HVAC DEMOLITION ROOF PLAN

1/4" = 1'-0"

0' 2' 4' 8' 16'

DEMOLITION KEY NOTES

1. DEMO AND REMOVE EXISTING CHILLER LOCATED ON THE ROOF SERVING THE EXISTING MRI UNIT AND ALL ASSOCIATED PIPING. PREPARE SITE FOR NEW MRI CHILLER. EXISTING DOGHOUSE TO REMAIN FOR REUSE. (1)
2. EXISTING ROOF MOUNTED FANS TO REMAIN.
3. DEMO AND REMOVE EXISTING QUENCH VENT ON ROOF IN ITS ENTIRETY. PREPARE EXISTING ROOF OPENING FOR NEW QUENCH VENT.
4. DEMO AND REMOVE EXISTING ROOFTOP UNIT, CONTROLS, ROOF CURB AND ALL ASSOCIATED PIPING DOWN BELOW TO ROOF LEVEL. PREPARE PIPING FOR NEW CONNECTION.



NORTH

2 MECHANICAL HVAC NEW ROOF PLAN

1/4" = 1'-0"

0' 2' 4' 8' 16'

NEW WORK KEY NOTES

1. NEW MRI CHILLER PROVIDED BY SIEMENS, INSTALLED BY CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PIPING. START UP WILL BE BY SIEMENS.
2. FURNISH AND INSTALL NEW AIR COOLED CONDENSING UNIT TO SERVE CRU-2490 IN EQUIPMENT ROOM. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTION WITH ALL RECOMMENDED CLEARANCES.
3. FURNISH AND INSTALL NEW CRYOGEN VENT. REFER TO M-502 DETAIL 1 FOR CRYOGEN VENT DETAIL.
4. EXISTING EXHAUST FAN TO REMAIN. REBALANCE FAN AS INDICATED.
5. FURNISH AND INSTALL NEW AHU WITH NEW 17" HIGH CUSTOM CURB. PROVIDE INSULATED CURB PERIMETER WITH SOLID FLOOR PANS FOR FIELD CUT SUPPLY AIR AND RETURN OPENING. REFER TO M-502 DETAIL 4 AND 5 FOR CURB DETAILS. ROUTE NEW 2" GCS/GCR PIPING AND 1 1/2" GHS/GHR TO ACCOMMODATE NEW AHU. REFER TO M-503 DETAIL 1 FOR WATER COILS-PIPING CONNECTION.
6. ROUTE NEW 2"GCS/2"GCR DOWN TO INTERFACE PANEL (IFP). ROUTE PIPING DOWN EXISTING OPENING. PATCH AND SEAL UNUSED ROOF OPENING TO MATCH EXISTING CONDITIONS. REFER TO M-502 DETAIL 2 FOR MRI PIPING CONNECTIONS.
7. FURNISH AND INSTALL NEW REFRIGERANT PIPING TO SERVE NEW CRU. PER MANUFACTURER'S INSTALLATION INSTRUCTION. PIPE SIZE SHALL MATCH MANUFACTURER'S RECOMMENDATION.

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Revisions	Date
ADDENDUM 1 (1)	4-10-2015
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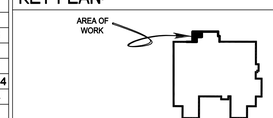

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Drawing Title: MECHANICAL ROOF DEMO AND NEW PLAN

Approved Project Director

Project Title: 111 UPGRADE MRI SUITE

Location: CLEMENT J. ZABLOCKI VA MEDICAL CENTER MILWAUKEE, WISCONSIN

Date: 1/5/2015 | Checked: SAT | Drawn: RAH

Project Number: 695-14-145

Building Number: 111

Drawing Number: MH-102

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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